

RAYMARK OU2  
ADMINISTRATIVE RECORD FILE \*  
INDEX OF DOCUMENTS

I. SITE IDENTIFICATION

1. Report: Report of Study & Investigation, Industrial Waste Treatment, Penn Rivet and Machine Co., prepared by W. H. & L. D. Betz, 3/10/47. P. 100001-100009. A certificate of analysis is attached.
2. Application Relative to Treatment of Discharge of Industrial Wastes, 1/26/48. P. 100010-100012.
3. Notes on the Office Conference for Penn Rivet & Machine Co., 2/10/48. P. 100013-100015. Another set of notes on the conference and a "Resolution of the Sanitary Water Board" are attached.
4. Report: Revised Engineering Report, Industrial Waste Treatment, prepared by W. H. & L. D. Betz, 2/20/48. P. 100016-100028.
5. Letter to Mr. Charles B. Marks, Jr., Borough of Hatboro, from Mr. Max U. Priester, W. H. & L. D. Betz, re: Application for permission to discharge treated wastes, 2/24/48. P. 100029-100030.
6. Agreement between the Borough of Hatboro and Penn Rivet & Machine Co., 9/7/48. P. 100031-100033.
7. Report of Chemical Analysis for Treatment Tank Effluent, 6/9/49. P. 100034-100034.
8. Letter to Mr. Wesley Benzee, Milford Rivet & Machine Co., from Mr. Max U. Priester, Betz Laboratories Inc., re: Supervisory Contract, 2/29/60. P. 100035-100041. Two sampling data sheets, a letter and another sampling data sheet are attached.

\* Administrative Record file available 8/16/90, updated 8/23/90, 11/5/90, and 8/21/91.

Note: Company or organizational affiliation is identified in the index only when it appears in the file.

9. Letter to Mr. Franklin Sahm, Milford Rivet & Machine Co., from Mr. Max U. Priester, Betz Laboratories, Inc., re: Industrial Waste Plant Supervisory Contract, 8/25/64. P. 100042-100061. Supporting data and five monthly visit letters with sampling data are attached.
10. Waste Inspection Report for Milford Rivet at Jacksonville Road, 7/15/70. P. 100062-100062.
11. Hand sketch by C. Peterson, Milford Rivet & Machine Co., 7/26/70. P. 100063-100064. Another sketch of a fence is attached.
12. Handwritten Waste Inspection Report for Milford Rivet & Machine Co., 9/10/71. P. 100065-100065.
13. Letter to Miss Charlotte E. Peterson, PADER, from Mr. Richard J. Walker, Milford Rivet & Machine Co., re: Application for a permit, 12/8/71. P. 100066-100066.
14. Letter to Miss Charlotte E. Peterson, PADER, from T. F. Sahm, Milford Rivet & Machine Co., re: Violation notice received, 1/24/72. P. 100067-100067.
15. Report: Plating Room Wastes, Milford Rivet & Machine Co., prepared by William E. Gaul, 4/7/72. P. 100068-100076. Another report with two sketches are attached.
16. Letter to Mr. Terry Fabian, PADER, from Mr. William E. Gaul, re: Changes to the waste treatment system at Milford Rivet & Machine Co., 6/1/72. P. 100077-100077.
17. Letter to Mr. William E. Gaul from Mr. John F. Daly, Jr., re: Elimination of waste impoundments, 6/9/72. P. 100078-100078.
18. Letter to Mr. John F. Daly, Jr., PADER, from Mr. William E. Gaul, re: Changes to the waste treatment system at Milford Rivet & Machine Co., 6/19/72. P. 100079-100079.
19. Waste Discharge Inspection Report, 7/10/72. P. 100080-100080.
20. Letter to Mr. D. Mangialardi, PADER, from Mr. Carl L. Meyers, William F. Lotz Inc., re: Confirmation of verbal agreement, 11/7/72. P. 100081-100081.

21. Waste Discharge Inspection Report, 11/3/72.  
P. 100082-100082.
22. Letter to Mr. Carl L. Meyers, William F. Lotz, Inc.,  
from Mr. John F. Daly Jr., re: Status of the  
impoundments, 12/19/72. P. 100083-100083.
23. Report: Operating Manual for H-VW-M Cyanide Waste  
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P. 100084-100093.
24. Waste Discharge Inspection Report, 3/7/73.  
P. 100094-100094.
25. Letter to Mr. Don Mangialardi, PADER, from Mr. Carl L.  
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impoundments and sewage treatment plant, 3/15/73. P.  
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26. Letter to Mr. Carl L. Meyers, William F. Lutz [sic],  
Inc., from Mr. Richard W. Pfaehler, re: Status of  
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27. Letter to Mr. Richard W. Pfaehler, PADER, from Mr. Carl  
L. Meyers, William F. Lotz, Inc., re: Elimination of  
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28. Letter to Mr. Carl L. Meyers, William S. Lutz [sic],  
Inc., from Mr. Richard W. Pfaehler, re: Elimination of  
Industrial Waste Impoundments, 5/18/73. P. 100098-  
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29. Letter to Mr. Richard W. Pfaehler, PADER, from Mr. Carl  
L. Meyers, William F. Lotz, Inc., re: Removal of  
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30. Letter to Mr. Carl L. Meyers, William S. Lutz [sic],  
Inc., from Mr. Richard W. Pfaehler, re: Complete  
removal of sludge, 6/25/73. P. 100100-100100.
31. Letter to Mr. Richard W. Pfaehler, PADER, from Mr. Carl  
L. Meyers, William F. Lotz, Inc., re: Completion of  
sludge removal, 7/20/73. P. 100101-100101.
32. Letter to Mr. Carl L. Meyers, William S. Lutz [sic],  
from Mr. Richard W. Pfaehler, PADER, re: Complete  
destruction of the sludge impoundments, 8/16/73.  
P. 100102-100102.

33. Letter to Mr. Richard W. Pfaehler, PADER, from Mr. Carl L. Meyers, William F. Lotz, Inc., re: Completion of grading & seeding, 10/16/73. P. 100103-100103.
34. Waste Discharge Inspection Report, 12/7/73. P. 100104-100104.
35. Memorandum to Mr. Michael Musheno from Mr. Ben Lacy, re: Sampling program for general scan for TCE and PCE, 11/7/79. P. 100105-100106.
36. Memorandum to Mr. Michael Musheno from Mr. Ben Lacey, re: Obtaining of a map, TCE analysis and identification of potential groundwater polluters, 11/7/79. P. 100107-100108.
37. Memorandum to Mr. Walter Lee, U.S. EPA, from Mr. Daniel K. Donnelly, U.S. EPA, re: Analyst's report for FID screens, 11/13/79. P. 100109-100109.
38. Memorandum to Mr. Daniel K. Donnelly, U.S. EPA, from Mr. Frederick Dreisch, U.S. EPA, re: TCE Screens on FID, 11/13/79. P. 100110-100110.
39. Memorandum to Mr. Daniel K. Donnelly, U.S. EPA, from Mr. Frederick Dreisch, U.S. EPA, re: Screening of samples, 11/26/79. P. 100111-100111.
40. Memorandum to File from Mr. Michael Musheno, U.S. EPA, re: Analysis results, 11/27/79. P. 100112-100112.
41. Memorandum to Mr. Larry A. Parker, U.S. EPA, from Mr. William F. Gersting, U.S. EPA, re: Volatiles data for TCE & PCE for samples #79112901-79113010, 12/21/79. P. 100113-100134. An Analysis Request and Result Form for each sample is attached.
42. Memorandum to File from Mr. Michael Musheno, U.S. EPA, re: Bucks County Groundwater Contamination Investigation, 12/14/79. P. 100135-100138.
43. Memorandum to Mr. Daniel Donnelly, U.S. EPA, from Mr. Frederick Dreisch, U.S. EPA, re: TCE & PCE report, 12/14/79. P. 100139-100140. TCE & PCE results are attached.

44. Memorandum to Mr. Daniel Donnelly, U.S. EPA, from Mr. Rick Dreisch, U.S. EPA, re: Table of sample results, 12/17/79. P. 100141-100143. Two pages of sample results are attached.
45. Memorandum to Mr. Daniel Donnelly, U.S. EPA, from Mr. Frederick Dreisch and Ms. Marilyn Gower, U.S. EPA, re: TCE Screens, 12/27/79. P. 100144-100146. Two pages of sample results are attached.
46. Memorandum to File from Mr. Michael Musheno, U.S. EPA, re: Continuation of Bucks County Investigation, 1/3/80. P. 100147-100148.
47. Memorandum to Mr. Daniel K. Donnelly, U.S. EPA, from Mr. Frederick Dreisch and Ms. Marilyn Gower, U.S. EPA, re: Warminster Hatboro Sample TCE Analysis, 1/16/80. P. 100149-100149.
48. Letter to Mr. Stephen W. Saul, SMC Martin, from Dr. Gerald R. Umbreit, Greenwood Laboratories, re: Examination of water samples for trichloroethylene content, 2/5/80. P. 100150-100150.
49. Final Strategy Determination Form for Hatboro Site, prepared by W. Lee, 2/10/80. P. 100151-100152.
50. Memorandum to Mr. Jeff Haas, U.S. EPA, from Mr. Ramon G. Lee, U.S. EPA, re: Monitoring of Hatboro Municipal Authority for Sources of TCE Contamination, 3/19/80. P. 100153-100153.
51. Letter to Mr. Ramon G. Lee, U.S. EPA, from Mr. Robert C. Schmauk, Hatboro Borough Authority, re: Sampling results, 3/19/80. P. 100154-100155.
52. Letter to Mr. Newton Finney, Hatboro Borough Authority, from Mr. Albert F. Zimmerman, Quality Control Laboratory Division, re: Raw Sewage Samples, 4/2/80. P. 100156-100158. Two pages of previous sampling data are attached.
53. Letter to Mr. Newton Finney, Hatboro Borough Authority, from Mr. Albert F. Zimmerman, Quality Control Laboratory Division, re: Water sampling data, 4/2/80. P. 100159-100159.
54. Letter to Mr. C. Newton Finney, Hatboro Borough Authority, from Mr. Albert F. Zimmerman, Quality

Control Laboratory, re: Water sampling results.  
4/16/80. P. 100160-100160.

55. Letter to Mr. Newton Finney, Hatboro Borough Authority, from Mr. Albert Zimmerman, Quality Control Laboratory, re: Well sampling data, 4/29/80. P. 100161-100161.
56. Letter to Mr. C. Newton Finney, Hatboro Borough Authority, from Mr. Albert F. Zimmerman, Quality Control Lab, re: Bacteriological Water Analysis Report, 4/29/80. P. 100162-100162.
57. Letter to Mr. C. Newton Finney, Hatboro Borough Authority, from Mr. Albert Zimmerman, Quality Control Lab, re: Well sampling data, 6/13/80. P. 100163-100163.
58. Letter to Mr. Ramon G. Lee, U.S. EPA, from Mr. C. Newton Finney, Hatboro Borough Authority, re: TCE/PCE Contamination, 7/17/80. P. 100164-100165.
59. Technical Direction Document prepared by Ecology and Environment Inc. for Plasti Seal Corp., re: Water and Soil Sampling, 8/15/80. P. 100166-100166.
60. Memorandum to File from Mr. Michael Musheno, U.S. EPA, re: Telephone conversation with Dick Walker of Milford Rivet, 9/15/80. P. 100167-100167.
61. Memorandum to File from Mr. Michael Musheno, U.S. EPA, re: Sampling data from Mander Stove Well, 9/23/80. P. 100168-100169.
62. Memorandum to File from Mr. Michael Musheno, U.S. EPA, re: Analytical results, 9/25/80. P. 100170-100170.
63. Memorandum to File from Mr. Michael Musheno, U.S. EPA, re: Continued investigation, 10/1/80. P. 100171-100171.
64. Memorandum to File from Mr. Michael Musheno, U.S. EPA, re: Bi-monthly TCE monitoring, 10/2/80. P. 100172-100172.
65. Memorandum to File from Mr. Michael Musheno, U.S. EPA, re: Graph summarizing sample results, 10/7/80. P. 100173-100174.

66. Technical Direction Document No. F3-8006-11A, Ecology & Environment Inc. for Plasti Seal Well Drilling, 1/14/81. P. 100175-100175.
67. Letter to Mr. Ron Namon, Ecology & Environment, from Mr. William Jefferys, A.C. Schultes & Sons Inc., re: Well Drilling Report, 2/26/81. P. 100176-100197. The following are attached:
- a) the Drilling Report;
  - b) a letter regarding the Monitor Wells project;
  - c) five Single Case Well Log sheets;
  - d) two Sample Log sheets;
  - e) two tables;
  - f) four Preparation Parameter Results & Extracts sheets;
  - g) a sketch of Well #5;
  - h) three sample analysis results.
68. Acknowledgement of completion for TDD, 3/26/81. P. 100198-100198.
69. Notification of Hazardous Waste Site, U.S. EPA, to Milford Rivet & Machine Co., 6/12/81. P. 100199-100200.
70. Report: Investigation of Test Well Sites, Hatboro Borough, Montgomery County, Pennsylvania, prepared by Walter B. Satterthwaite Associates, Inc., 7/81. P. 100201-100217.
71. Memorandum to Mr. Daniel K. Donnelly, U.S. EPA, from Mr. James Jerpe, U.S. EPA, re: Haloform Analysis in Drinking Water, 10/19/81. P. 100218-100220. Two tables of sampling data are attached.
72. Memorandum to File from Mr. Robin Aitken, U.S. EPA, re: Field activities, 9/28/81. P. 100221-100221.
73. Memorandum to Mr. Daniel K. Donnelly, U.S. EPA, from Mr. James Jerpe, U.S. EPA, re: Analyses of water

samples, 12/24/81. P. 100222-100247. The following are attached:

- a) fifteen Analysis Request and Result Forms;
- b) five pages of handwritten notes;
- c) a replacement parts list;
- d) the Operating Procedure & Technique for Kemmerer Water Samplers.

- 74. Memorandum to File from Mr. Robin Aitken, U.S. EPA, re: Field activities, 5/7/82. P. 100248-100248.
- 75. Memorandum to Mr. Daniel K. Donnelly, U.S. EPA, from Mr. James Jerpe, U.S. EPA, re: Haloform Analyses, 5/11/82. P. 100249-100250. A Chain of Custody Report is attached.
- 76. Memorandum to Mr. Robin Aitken, U.S. EPA, from Mr. Daniel K. Donnelly, U.S. EPA, re: Penn Fastener report, 5/21/82. P. 100251-100253. The report is attached.
- 77. Letter to Ms. Susan L. Gordon, Morgan, Lewis & Bockius, from Mr. John R. Ousey Jr., Betz, Converse & Murdoch Inc., re: Results of Evaluation of Pump Test, 6/10/82. P. 100254-100258.
- 78. Letter to Ms. Susan L. Gordon, Morgan, Lewis & Bockius, from Mr. John R. Ousey Jr., Betz, Converse & Murdoch, Inc., re: Results and Evaluation of Soil Sampling for TCE, 6/30/82. P. 100259-100261.
- 79. Letter to Ms. Susan L. Gordon, Morgan, Lewis & Bockius, from Mr. John R. Ousey, Jr., BCM Inc., re: Review of Trend Clauses, 7/26/82. P. 100262-100265.
- 80. Site Inspection Report for Jacksonville Road Site, 6/9/83. P. 100266-100276.
- 81. Memorandum to File from Mr. Howard O. Wilson, U.S. EPA, re: Multi-depth Sampling of Penn Fastener Inc. and Mander Stove Company Wells, 9/19/83. P. 100277-100281. Tables A through D of sampling results are attached.
- 82. Memorandum to Raymark File from Mr. Robin Aitken, U.S. EPA, re: Summary of meeting, 10/25/83. P. 100282-100282.



83. Memorandum to Mr. Robin Aitken from Mr. S. Stephen Platt, U.S. EPA, re: Drilling and Sampling Specifications, 12/5/83. P. 100283-100285.

84. Letter to Mr. John D. Cooper, U.S. EPA, from Mr. Eugene N. Cipriani, SEPTA, re: SEPTA Right-of-Way Agreement, 4/26/84. P. 100286-100292. The agreement is attached.
85. Letter to Mr. Robin Aitken, U.S. EPA, from Mr. Richard M. Cromer, NUS Corp., re: Drilling Operations, 4/27/84. P. 100293-100320. A report on technical specifications for the drilling of boreholes is attached.
86. Letter to Mr. Robin Aitken, U.S. EPA, from Mr. David L. Woglom, Borough of Hatboro, re: Granting of permission to drill monitoring wells, 4/28/84. P. 100321-100321.
87. Memorandum to Mr. Garth Glenn, U.S. EPA, from S. Stephen Platt, U.S. EPA, re: Recommended Alternative for Raymark Enforcement Case, 9/13/84. P. 100322-100324.
88. Letter to Mr. Martin Howe, NUS Corp., from Mr. Daniel K. Donnelly, U.S. EPA, re: Organic Analysis Report, 11/26/84. P. 100325-100333. The report is attached.
89. Report: Focused Feasibility Study - Final Report, prepared by PRC Environmental Management, Inc., 3/20/85. P. 100334-100434.
90. Letter to Ms. Paula Luborsky, U.S. EPA, from Mr. Eric Lee Edelstein, GCA Corp., re: Maps for Raymark Site, 9/12/85. P. 100435-100438. Three maps are attached.
91. Memorandum to File from Ms. Paula Luborsky, U.S. EPA, re: Ground Water [sic] and Soil Sampling, 10/29/85. P. 100439-100439.
92. Report: Plan for the Removal of TCE from Authority Wells 1,2,3,7, 12 & 16, prepared by Robert D. Gilmore & Associates, Inc., 1/86. P. 100440-100447.
93. Report: Review of TCE Contamination Site, Hatboro, Pennsylvania, prepared by John R. Ousey, Jr., 2/86. P. 100448-100472.
94. Report: Raymark Corporation Focused Feasibility Study - Addendum, prepared by PRC Environmental Management, Inc., 3/11/86. P. 100473-100521.

95. Letter to Ms. Paula Luborsky, U.S. EPA, from Mr. Daniel T. Chow, PRC Engineering, re: EP Toxicity Calculation, 3/28/86. P. 100522-100523.
96. Site Inspection Report, 6/19/86. P. 100524-100536.
97. Report: Focused Feasibility Study - Final Addendum, prepared by PRC Environmental Management, Inc., 11/11/86. P. 100537-100587.
98. Chain of Custody Documentation, 11/21/86. P. 100588-100588.
99. Hand-sketch of locations of drill sites, 11/19-22/86. P. 100589-100598. Sampling result data are attached.
100. Memorandum to File from Ms. Paula Luborsky, U.S. EPA, re: Off-site Remediation Proposal, 12/9/86. P. 100599-100599.
101. Letter to Mr. David Street, Department of Justice, from Dr. Michael C. Hadka, Walter B. Satterthwaite Associates, Inc., re: Results for soil borings from Wells A2 & A3, 12/10/86. P. 100600-100685. A report of the samples is attached.
102. Letter to Ms. Susan Dein Bricklin, U.S. Department of Justice, from Mr. Stan Feenstra, Zenon Environmental Inc., re: Soil sampling procedures, 12/12/86. P. 100686-100689.
103. Memorandum to Ms. Paula Luborsky, U.S. EPA, from Mr. John Austin, U.S. EPA, re: Metals Report, 12/16/86. P. 100690-100700. The report is attached.
104. Memorandum to Mr. Jim Vickery, U.S. EPA, from Mr. John Austin, U.S. EPA, re: Soil Analysis for Volatile Organics, 12/22/86. P. 100701-100702.
105. Letter to Ms. Gerallyn Valls, U.S. EPA, from Mr. Edward R. Schuessler, PRC Environmental Management, Inc., re: Draft Letter Report on Remedial Alternatives, 1/22/87. P. 100703-100707.

106. Letter to Ms. Gerallyn Valls, U.S. EPA, from Mr. Edward R. Schuessler, PRC Environmental Management, Inc., re: Historical Summary of Environmental Sampling, 1/23/87. P. 100708-100714. The Historical Summary is attached.
107. Memorandum to Mr. John Austin, U.S. EPA, from Mr. Ronald H. Altman, U.S. EPA, re: Mercury determination of samples, 1/27/87. P. 100715-100720. Five Chain of Custody Records are attached.
108. Memorandum to Ms. Gerallyn Valls, U.S. EPA, from Mr. John Austin, U.S. EPA, re: Analytical reports, 1/28/87. P. 100721-100772. The reports are attached.
109. Letter to Mrs. Susan Dein Bricklin, U.S. Department of Justice, from Mr. Stan Feenstra, Zenon Environmental Inc., re: Results of Site Investigation, 1/30/87. P. 100773-100794. Table A, Table B, and Appendices A & B are attached.
110. Memorandum to Mr. John Austin, U.S. EPA, from Mr. Stephen E. Buchanan, U.S. EPA, re: Dissolved Metals Determinations, 1/30/87. P. 100795-100799. The sample data and a groundwater sample location map are attached.
111. Memorandum to Mr. John Austin, U.S. EPA, from Mr. Stephen E. Buchanan, U.S. EPA, re: Total Metals Determinations, 1/30/87. P. 100800-100807. The sample data results are attached.
112. Report: Conceptual Design & Preliminary Cost Estimate for Removal of Trichloroethylene, prepared by Camp Dresser & McKee, 2/27/87. P. 100808-100827.
113. Memorandum to Ms. Gerallyn Valls, from Mr. James Barron, re: Erratum for VOA report, 3/3/87. P. 100828-100829. A copy of another memorandum is attached.
114. Report: Evaluation of the Penn Fasteners Site, Hatboro, PA, prepared by Triegel Associates, Inc., 3/17/87. P. 100830-100849.
115. Report: Report Concerning the Use of Degreasers & Trichloroethylene and the Use of Degreasers At the Plant in Hatboro, Pennsylvania, prepared by Dr. Ralph G. Smith, 3/19/87. P. 100850-100863.

116. Facsimile transmittal cover page to Ms. Gerallyn Valls from Ms. Diana Baldi, re: Modified sampling procedure for Volatile Organics, 10/16/87. P. 100864-100865.
117. Letter to Ms. Gerallyn Downs-Valls, U.S. EPA, from Mr. Stephen J. Medlar, CDM, re: Air pollution control system, 5/12/87. P. 100866-100868.
118. Letter to Ms. Gerallyn Downs-Valls, U.S. EPA, from Mr. Stewart Abrams, CDM, re: Updated Air Pollution Control Costs, 6/24/87. P. 100869-100871.
119. Memorandum to File from Mr. Michael Musheno, U.S. EPA, re: Sampling program for groundwater contamination, (undated). P. 100872-100873.
120. Hand-drawn sketch of Batch Treatment Plants, (undated). P. 100874-100874.
121. Water or Waste Quality Report, (undated). P. 100875-100876.
122. Certified mail receipt to Mr. Carl L. Meyers, (undated). P. 100877-100877.
123. Certified mail receipt to the Bureau of Water Quality Management, (undated). P. 100878-100879.
124. Report: Trichloroethylene Analyses in Soil and Groundwater Samples Taken in the Vicinity of the Penn Fasteners Site, Hatboro, Pennsylvania, (undated). P. 100880-100885.

## II. REMEDIAL ENFORCEMENT PLANNING

1. Letter to Mr. Milford Rivet from Mr. Jack J. Schramm, U.S. EPA, re: Request for information on TCE presence, 11/19/79. P. 200001-200005.
2. Letter to Mr. Joseph Armoa, U.S. EPA, from Mr. Richard Walker, Milford Rivet & Machine Co., re: Response to request for information, 11/27/79. P. 200006-200007.
3. Letter to Mr. Robert Brook, from Mr. James Sheehan, U.S. Department of Justice, re: Transmittal of the Consent Decree, 11/29/84. P. 200008-200033. A Remedial Action Plan is attached.
4. Letter to Ms. Paula Luborsky, U.S. EPA, from Mr. Eric Lee Edelstein, GCA Corporation, re: Site Deeds for Parcel 3 (Road's Van Service), 1/16/86. P. 200034-200039. The deeds are attached.
5. Report: Raymark Site Subdivision Property Boundary Confirmation, Hatboro, Pennsylvania, prepared by PRC Engineering, 10/85. P. 200040-200100.
6. Consent Decree between Hatboro Borough Authority and Raymark Industries, Inc., 1/25/89. P. 200101-200146.

### III. REMEDIAL RESPONSE PLANNING

1. Report: Preliminary Summary of Available Soil Data for the Raymark Site, prepared by CH2M Hill, 2/21/89. P. 300001-300063.
2. Letter to Ms. Gerallyn Valls, U.S. EPA, from Mr. Charles R. Wood, U.S. Department of the Interior, re: Work Plans, 3/20/89. P. 300064-300066.
3. Letter to Mr. J. Newbold, PADER, from Ms. Gerallyn Valls, U.S. EPA, re: A ten-hour packer test, 3/22/89. P. 300067-300068.
4. Report: Final Sampling & Analysis Plan, prepared by CH2M Hill, 4/89. P. 300069-300141.
5. Letter to Ms. Gerallyn Valls, U.S. EPA, from Mr. Joseph A. Feola, PADER, re: Response regarding ten-hour packer test, 4/7/89. P. 300142-300142.
6. Letter to Ms. Gerallyn Valls, U.S. EPA, from Mr. Charles R. Wood, U.S. Department of the Interior, re: Quality Assurance plan for the packer testing, 4/11/89. P. 300143-300153. The work plan and geophysical logs are attached.
7. Letter to Ms. Bonnie Guy Gross, U.S. EPA, from Mr. Jay Newbaker, PADER, re: Comments on RI/FS Draft Work Plan, 4/21/89. P. 300154-300155.
8. Letter to Ms. Gerallyn Valls, U.S. EPA, from Mr. Charles R. Wood, U.S. Department of Interior, re: U.S. Geological Survey's Geophysical Log, 5/2/89. P. 300156-300157.
9. Letter to Ms. Gerallyn Valls, U.S. EPA, from Mr. Charles R. Wood, U.S. Department of the Interior, re: Replotted Temperature Log, 5/12/89. P. 300158-300167. The logs are attached.
10. Memorandum regarding geophysical logs, 5/12/89. P. 300168-300174. The logs are attached.
11. Report: Raymark Remedial Design Final Enforcement Support Work Plan, prepared by CH2M Hill, 5/17/89. P. 300175-300195.

12. Memorandum to Ms. Gerallyn Valls, U.S. EPA, from Mr. Michael Towle, U.S. EPA, re: Hydrogeologic Analysis of Diagnostic Testing, 5/23/89. P. 300196-300213. A Field Report is attached.
13. Handwritten memorandum to Raymark File from Ms. Bonnie Gross, U.S. EPA, re: Analytic Method for VOA Analysis of Soil Samples, 5/25/89. P. 300214-300215.
14. Letter to Mr. Joseph Cleary, CH2M Hill, from Ms. Bonnie Guy Gross, U.S. EPA, re: Testing for dense non-aqueous phase liquids in unsaturated fractured bedrock, 5/30/89. P. 300216-300234. The following are attached:
  - a) a letter regarding a Draft RI/FS Work Plan;
  - b) a page from a report with changes made on it;
  - c) a report on Field Aqueous Stabilization of Volatile Organics in Solids;
  - d) a Surface Water & Sediment Investigation;
  - e) a Well Questionnaire;
  - f) a Home Well Survey;
  - g) a letter regarding Draft RI/FS Work Plan comments.
15. Letter to Ms. Gerallyn Valls, U.S. EPA, from Mr. Albert L. Herrmann, Hatboro Borough Authority, re: Discontinued use of Well #2, 6/20/89. P. 300235-300235.
16. Letter to Ms. Bonnie Guy Gross, U.S. EPA, from Mr. Joseph G. Cleary, CH2M Hill, re: Statistical Analysis of Well Point Sampling Program, 6/29/89. P. 300236-300237.
17. Letter to Ms. Bonnie Guy Gross, U.S. EPA, from Mr. Joseph G. Cleary, CH2M Hill, re: Statistical Analysis of Well Points Sampling Program, 6/30/89. P. 300238-300242. A table and an Area of DNAPL Investigation are attached.



18. Letter to Ms. Bonnie Guy Gross, U.S. EPA, from Mr. Joseph G. Cleary, CH2M Hill, re: Water stabilization method comments, 7/6/89. P. 300243-300244.
19. Letter to Ms. Bonnie Guy Gross, U.S. EPA, from Mr. Joseph G. Cleary, CH2M Hill, re: X-ray Fluorescence Method comments, 7/18/89. P. 300245-300248.
20. Letter to Ms. Gerallyn Valls, U.S. EPA, from Mr. Charles R. Wood, U.S. Department of the Interior, re: Data and graphs for packer testing, 7/20/89. P. 300249-300307. The data & graphs are attached.
21. Letter to Mr. Robert Todd, Hatboro Water Authority, from Ms. Gerallyn Valls, U.S. EPA, re: Proposed Scope of Work for pumping test, 7/21/89. P. 300308-300312. A memorandum and a Proposed Scope of Work for pumping tests are attached.
- \* 22. Letter to Mr. Mike Towle, U.S. EPA, from Mr. Charles Wood, U.S. Department of the Interior, re: Transmittal of geophysical logs, 7/26/89. P. 300313-300315.
23. Memorandum to Mr. Mike Towle, U.S. EPA, from Ms. Claudia P. Walters, U.S. EPA, re: QA Review of Soil VOC Preservation Method, 10/30/89. P. 300316-300331. A report is attached.
24. Letter to Mr. Mike Towle, U.S. EPA, from Mr. Joseph [sic] G. Cleary, CH2M Hill, re: Minutes of Raymark RI/FS Rescoping Meeting on October 30, 1989, 11/3/89. P. 300332-300338. The minutes are attached.
25. Letter to Mike Towle, U.S. EPA, from Ms. Jan Valeriano, Gilmore & Associates, Inc., re: Air Stripper Design Parameters, 11/21/89. P. 300339-300589. The Sample Analysis History for Well #16 is attached.
26. Report: Sampling and Analysis Plan for Soil Gas Survey for the Raymark Source Control RI/FS, prepared by CH2M Hill, 12/1/89. P. 300590-300623.
27. Letter to Mr. Michael Towle, U.S. EPA from Mrs. Dawn DeBiasse, CH2M Hill, re: Surface Soil Sampling for the Remedial Investigation and Feasibility Study, 1/3/90. P. 300624-300631. A Surface Soil Sample Locations

graph, two Chain of Custody reports and, two Sample Shipping Logs are attached.

28. Memorandum to Distribution from Mr. Michael Towle, U.S. EPA, re: Final draft of the work plan, 1/29/90. P. 300632-300774. The report is attached.
29. Report: Final Field Trip Report for Groundwater Sampling, prepared by CH2M Hill 2/12/90. P. 300775-300839.

\* The geophysical logs can be found at U.S. EPA Region III Headquarters in Philadelphia.

30. Memorandum to Ms. Carla Dempsey, U.S. EPA, from Ms. Patricia J. Krantz, U.S. EPA, re: Data Review, 3/13/90. P. 300840-300873. The Data Review is attached.
31. Letter to Mr. Mike Towle, U.S. EPA, from Ms. Jan A. Valeriano, Gilmore & Associates Inc., re: Well H-16 Air Stripper Design, 3/23/90. P. 300874-300875.
32. Letter to Ms. Bonnie Scully, PADER, from Mr. Michael Towle, U.S. EPA, re: Focused Feasibility Study and its Addendum, 3/26/90. P. 300876-300877.
33. Letter to Mr. Michael Towle, U.S. EPA, from Ms. Bonnie T. Scully, PADER, re: Comments on the RI/FS Draft Final Work Plan, 3/27/90. P. 300878-300880.
34. Letter to Ms. Bonnie Scully, PADER, from Mr. Michael Towle, U.S. EPA, re: Reviewing of Sampling & Analysis Plan, 4/4/90. P. 300881-300881.
35. Letter to Mr. Michael Towle, U.S. EPA, from Ms. Bonnie J. Scully, PADER, re: PADER approvals for proposed pump test, packer tests and soil vapor extraction pilot study, 4/13/90. P. 300882-300883.
36. Letter to Mr. Joseph Cleary, CH2M Hill, from Mr. Michael Towle, U.S. EPA, re: Comments to the Sampling and Analysis Plan, 4/20/90. P. 300884-300885.
37. Letter to Ms. Bonnie Scully, PADER, from Mr. Michael Towle, U.S. EPA, re: Focused Feasibility Study & Final Addendum, 4/20/90. P. 300886-300887.

38. Letter to Mr. Joseph Cleary, CH2M Hill, from Mr. Michael Towle, U.S. EPA, re: Treated and raw water sampling data, 4/25/90. P. 300888-300916. The sampling data is attached.
39. Letter to Ms. Bonnie Scully, PADER, from Mr. Michael Towle, U.S. EPA, re: Information related to PADER approvals, 4/25/90. P. 300917-300928.
40. Letter to Ms. Mindi Snoparski, U.S. EPA, from Mr. Albert E. Becher, U.S. Department of the Interior, re: The Work Plan for the new geophysical studies, 4/26/90. P. 300929-300931.
41. Letter to Mr. Michael Towle, U.S. EPA, from Ms. Bonnie J. Scully, PADER, re: PADER review of Hatboro Borough Authority Well H-16 air stripper design bid and specification documents, 5/8/90. P. 300932-300934.
42. Letter to Mr. Michael Towle, U.S. EPA, from Ms. Bonnie J. Scully, PADER, re: Sampling and Analysis Plan Review, 5/10/90. P. 300935-300937.
43. Letter to Mr. Joseph Cleary, CH2M Hill, from Mr. Michael Towle, U.S. EPA, re: Draft Sampling and Analysis Plan, 5/21/90. P. 300938-300939.
44. Letter to Mr. Joseph Cleary, CH2M Hill, from Mr. Michael Towle, U.S. EPA, re: Approval of Draft Technical Memorandum on the Soil Gas Survey Results, 5/21/90. P. 300940-300940.
45. Letter to Mr. Michael Towle, U.S. EPA, from Mr. Joe Cleary, CH2M Hill, re: Field Meeting Notes, 5/30/90. P. 300941-300943.
46. Report: Addendum to Sampling and Analysis Plan for Raymark Site Remedial, prepared by CH2M Hill, 6/7/90. P. 300944-300983.
47. Letter to Mr. Michael Towle, U.S. EPA, from Ms. Bonnie J. Scully, PADER, re: Department approval for packer pump and soil vapor tests, 6/11/90. P. 300984-300985.
48. Memorandum to File from Mr. Michael Towle, U.S. EPA, re: Site visit, Raymark, 6/14/90. P. 300986-300986.

49. Letter to Mr. Robert Todd, Hatboro Water Authority, from Mr. Michael Towle, U.S. EPA, re: Air emissions from air stripper, 6/15/90. P. 300987-300988.
50. Report: Preliminary Health Assessment for Raymark Site, prepared by Agency for Toxic Substances and Disease Registry, 6/18/90. P. 300989-301002.
51. Letter to Ms. Bonnie Scully, PADER, from Mr. Michael Towle, U.S. EPA, re: PADER review of Draft Ground Water Risk Assessment and Draft Groundwater Focused Feasibility Study, 6/22/90. P. 301003-301003.
52. Letter to Mr. Michael Towle, U.S. EPA, from Mr. Joseph G. Cleary, CH2M Hill, re: Criteria for selecting soil sample, 6/26/90. P. 301004-301005.
53. Report: Final Technical Memorandum for Soil Gas Survey Results, Raymark Site RI/FS, prepared by CH2M Hill, 7/90. P. 301006-301052.
54. Report: Addenda No.1 & No.2 Sampling & Analysis Plan for Raymark Site Remedial Investigation & Feasibility Study, prepared by CH2M Hill, 7/17/90. P. 301053-301093.
55. Letter to Mr. Michael Towle, U.S. EPA, from Mr. Joseph G. Cleary, CH2M Hill, re: Submittal of Final Sampling and Analysis Plan including Addendum 1 & 2, 7/20/90. P. 301094-301589. The Final Sampling & Analysis Plan for the RI/FS is attached.
56. Letter to Mr. Robert Todd, Hatboro Water Authority, from Mr. Michael Towle, U.S. EPA, re: Potential risks to residents, 7/27/90. P. 301590-301591.
57. Letter to Mr. Michael Towle, U.S. EPA, from Mr. Charles Kulp, U.S. Department of the Interior, re: Transmittal of Endangered Species in Pennsylvania, 8/3/90. P. 301592-301593. A table of federally listed endangered and threatened species in Pennsylvania is attached.
58. Letter to Mr. Michael Towle, U.S. EPA, from Mr. Clark Shiffer, Pennsylvania Fish Commission, re: Transmittal of information on Endangered Species, 8/3/90. P. 301594-301630. A brochure on endangered and threatened species of Pennsylvania is attached.

59. Requested information from the Montgomery County Planning Commission, (undated). P. 301631-301653. The following are attached:
- a) 1980 consensus of population;
  - b) six zoning maps;
  - c) a comprehensive plan of Hatboro.

The following were relied upon for the Remedial Investigation/Feasibility Study:

60. Report: Report on Plasti-Seal Monitoring Wells, Montgomery County, PA, prepared by C. K. Lee & Ronald M. Naman, Ecology & Environment, Inc., 1/81. P. 301654-301671.
61. Report: Hydrogeologic Field Report on Well Development & Step Test At the Raymark Site, Hatboro, PA, prepared by GMC Associates, Inc., 9/7/84. P. 301672-301723.
62. Report: A Field Trip Report, prepared by NUS Corporation, 2/20/85. P. 301724-301855.
63. Report: Soil Sampling and Groundwater Sampling Report, prepared by NUS Corporation, 1/28/86. P. 301856-302218.
64. Report: Contamination by Trichloroethylene of a Portion of the Stockton Aquifer Under the Community of Hatboro, Pennsylvania, prepared by Robert Giegengack, University of Pennsylvania, 2/21/86. P. 302219-302239.
65. Letter to Ms. Susan Dein Bricklin, U.S. Department of Justice, from Mr. Stan Feenstra, Zenon Environmental Inc., re: "Review and Recommendations for Future Investigations, Raymark Site", 9/26/86. P. 302240-302286. The review is attached.
66. Letter to Mr. David Street, Department of Justice, from Dr. Michael C. Hadka, Walter B. Satterthwaite Associates, Inc., re: Results of Soil Borings from Wells A2 & A3, 12/24/86. P. 302287-302304. The results are attached.
67. Report: A Field Trip Report, prepared by NUS Corporation, 3/11/87. P. 302305-302626.

68. Report: Draft Letter Report, Data Screening for Raymark Site, Hatboro, Pennsylvania, prepared by PRC, 5/12/87. P. 302627-302679.
69. Report: A Field Trip Report for Raymark, prepared by NUS Corporation, 1/20/87. P. 302680-302815.
70. Report: Draft Focused Feasibility Study for Groundwater Remediation, Raymark Site, prepared by CH2M Hill, 6/90. P. 302816-303040.
71. Report: Raymark Site Draft Risk Assessment for Contaminated Ground Water, prepared by CH2M Hill, 6/11/90. P. 303041-303092.
72. Letter to Mr. Joseph Cleary, CH2M Hill, from Mr. Michael Towle, U.S. EPA, re: EPA comments on Draft Focused Feasibility Study and Draft Risk Assessment Report, 7/31/90. P. 303093-303100.

#### General Remedial Response Planning Documents

73. Report: Proposed Plan, Raymark Superfund Site, (undated). P. 303101-303119.
74. Raymark Preliminary Risk Assessment List of Tables, 8/15/90. P. 303119a-303132.

#### Record of Decision

75. Record of Decision, 9/28/90. P. 303133-303302.

#### General Remedial Response Planning Documents

76. Letter to Mr. Michael Towle, U.S. EPA, from Mr. Kurt W. Carr, Pennsylvania Historical and Museum Commission, re: Historic or archaeological properties in the area, 8/14/90. P. 303303-303303.
77. Letter to Mr. Michael Towle, U.S. EPA, from Mr. Jacob I. Sitlinger, Pennsylvania Game Commission, re: Threatened and endangered species, 8/27/90. P. 303304-303304.
78. Letter to Mr. Michael Towle, U.S. EPA, from Mr. Leon T. Gonshor, PADER, re: Review of Proposed Plan, 8/27/90. P. 303305-303305.

79. Letter to Mr. Michael Towle, U.S. EPA, from Mr. George Danyliw, PADER, re: State ARARs for groundwater, 8/28/90. P. 303306-303309.
80. Letter to Mr. Michael Towle, U.S. EPA, from Ms. Bonnie J. Scully, PADER, re: Comments on Record of Decision, 9/17/90. P. 303310-303315.
81. Letter to Mr. Michael Towle, U.S. EPA, from Mr. Bradford F. Whitman, Dechert Price & Rhoads, re: Comments on the Proposed Plan, 9/17/90. P. 303316-303320.
82. Letter to Mr. Michael Towle, U.S. EPA, from Mr. Brendan K. Collins, Ballard, Spahr, Andrews & Ingersoll, re: Comments on the Proposed Remedial Action Plan, 9/17/90. P. 303321-303383. The comments are attached.
83. Letter to Ms. Colleen K. Walling, U.S. EPA, from Ms. Laura J. Gavin, CH2M Hill, re: Sampling shipping logs, 10/5/90. P. 303384-303385.
84. Letter to Mr. Michael Towle, U.S. EPA., from Mr. Joseph G. Cleary, CH2M Hill, re: Packer test results, 10/18/90. P. 303386-303393.
85. Letter to Mr. Robert Todd, Hatboro Water Authority, from Mr. Michael Towle, U.S. EPA, re: Hatboro well #7, 11/14/90. P. 303394-303395.
86. Memorandum to the Quality Assurance Officer, U.S. EPA, from Ms. Patricia J. Krantz, U.S. EPA, re: Data review, 12/3/90. P. 303396-303482.
87. U.S. EPA Preferred Remedy for Contamination of Groundwater and Drinking Water, 2/91. P. 303483-303486.
88. Memorandum to Mr. Thomas Hartnett, PADER, and Mr. Bruce Rundell, U.S. EPA, from Mr. Michael Towle, U.S. EPA, re: Groundwater Technical Memorandum, 3/1/91. P. 303487-303519. The memorandum is attached.
89. Letter to Mr. Michael Towle, U.S. EPA, from Mr. Thomas R. Hartnett, PADER, re: State ARARs, 4/29/91. P. 303520-303521.

90. Report: Raymark Site RI/FS Final Ground Water Investigation Memorandum, Operable Units No. 2 and 3, 6/91. P. 303522-303635.
91. Letter to Mr. Joseph A. Feola, PADER, from Mr. Michael Towle, U.S. EPA, re: Temporary discharge approval, 6/5/91. P. 303636-303637.



V. COMMUNITY INVOLVEMENT/CONGRESSIONAL CORRESPONDENCE/ IMAGERY

1. Press Release entitled "Parties Associated with Raymark Superfund Site Agree to \$1,125,000 Settlement" 1/31/89. P. 500001-500002.
2. Report: Site Analysis, Raymark, Hatboro, Pennsylvania, prepared by Bionetics Corporation, 8/89. P. 500003-500019.
- \* 3. Map of Proposed Aeration System, Hatboro Well No.16, prepared by Gilmore & Associates, 1/90.
- \* 4. Site Plan of Well No. 16, prepared by Gilmore & Associates, 1/8/90.
- \* 5. Site Plan - Existing Conditions & Demolition Work of Well No. 16 Aeration System, prepared by Gilmore & Associates, 1/8/90.
- \* 6. Site Plan - Proposed Facilities of Well No. 16 Aeration System, prepared by Gilmore & Associates, 1/8/90.
- \* 7. Section & Detail of Well No. 16 Aeration System, prepared by Gilmore & Associates, 1/8/90.
- \* 8. 1000 PPB Air Stripper & Carbon Adsorber (Retro-fit) Well No. 16 Aeration System, prepared by Gilmore & Associates Inc., 1/8/90.
9. Letter to Mr. Richard J. Walker from Mr. Michael Towle, U.S. EPA, re: Completion of RI/FS, 6/14/90. P. 500020-500021.
10. Newspaper article entitled, "Hatboro To Reopen Two Weeks," Montgomery County Record, 6/20/90. P. 500022-500022.
11. Letter from Mr. Michael Towle, U.S. EPA, re: Transmittal of the draft Proposed Plan, 7/11/90. P. 500023-500024. Two Airborne Express receipts are attached.
12. Memorandum from U.S. EPA, re: Copies of water level graphs from Wells H2, RI, MS-10, 7/20/90. P. 500025-500068.

- \* This document can be found at U.S. EPA Region III Headquarters.
  
- \* 13. Structural details of Well No. 16 Aeration System, (undated).
  
- \* 14. 100 ppb Stripping Tower & Details of Well No. 16 Aeration System, prepared by Gilmore & Associates, (undated).
  
- 15. Transcript of Public Hearing for Raymark Superfund Site, Hatboro Borough, Pennsylvania, 8/30/90. P. 500069-500164.
  
- 16. Letter to Mr. Mike Towle, U.S. EPA, from Mr. Thomas J. Rotchford, Hatboro Resident, re: Comments on the proposed plan, 9/13/90. P. 500165-500165.
  
- 17. Letter to Mr. Michael Towle, U.S. EPA, from Mr. Nolan Hare, Hatboro Resident, re: Questions concerning drinking water, 9/14/90. P. 500166-500166.

- \* This document can be found at U.S. EPA Region III Headquarters.